HW#98: Mixed Quadrilaterals

Honors Geometry

Due: Monday March 21st, 2016

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP:\_\_\_\_\_

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| Objective | You will be able to identify quadrilaterals. | | | |
| IDENTIFYING QUADRILATERALS Identify the quadrilaterals below based on the given information about their angles and sides. Provide evidence for your claim. | | | | |
| ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.08.16%20PM  Claim:  Evidence: | | ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.08.21%20PM  Claim:  Evidence: | ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.08.25%20PM  Claim:  Evidence: | ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.08.28%20PM  Claim:  Evidence: |
| ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.08.32%20PM  Claim:  Evidence: | | ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.08.36%20PM  Claim:  Evidence: | ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.08.41%20PM  Claim:  Evidence: | ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.08.45%20PM  Claim:  Evidence: |

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| Objective | YWBAT apply the correct side and angle properties of quadrilaterals. | |
| 9) Find the measurements of angle B, C, and D. | | 10) If one diagonal of a rhombus is 10 cm and the other 24 cm, how long is each side of the rhombus? |
| 11) Find the length of DE.   1. 5 2. 5 3. 6 4. 6   Justify your answer in a sentence:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | 12) If one diagonal of a rhombus is 24 cm and the other is 70 cm, how long is each side of the rhombus? |
| 13) Which of the following quadrilaterals have diagonals that are perpendicular?   1. Parallelogram 2. Rhombus 3. Square 4. Kite 5. I 6. II and III only 7. II, III, and IV 8. II and IV only 9. All of the above   To prove your answer above, draw four different diagrams with their diagonals.   |  |  | | --- | --- | | Parallelogram | Rhombus | | Square | Kite | | | 14) If one diagonal of a rhombus is 24 cm and the other is 70 cm, how long is each side of the rhombus? |
| 15) Which of the following parallelograms have congruent diagonals?   1. Square 2. Rectangle 3. Rhombus 4. I only 5. I and II only 6. I and III only 7. None of the above 8. All of the above   Justify your answer in a sentence:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.19.28%20PM | ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.17.34%20PM | | ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.20.25%20PM |
| ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.18.26%20PM | | ../../../../../Desktop/Screen%20Shot%202016-03-05%20at%208.17.13%20PM | |